

ABSTRACT OF THE DISCLOSURE

The present invention relates to a gene delivery vehicle comprising a recombinant adenovirus having a tropism for a primary human chondrocyte. By efficiently transducing a nucleic acid of interest into a primary chondrocytes, the gene delivery vehicle is able, at least in part, to improve the cartilage disease. In one embodiment, the recombinant adenovirus has a deletion in the gene encoding the fiber protein, which is replaced by a nucleic acid sequence encoding at least part of a fiber protein of a B-type adenovirus.

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